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TITLE: DATA PROCESSING SYSTEM AND DATA PROCESSING METHOD

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ABSTRACT:

PROBLEM TO BE SOLVED: To efficiently handle many transactions coexisting in a host bridge in the both directions of inbound and outbound.

SOLUTION: A data processing system 10 includes a host processor 12, many peripheral devices 22 and one or more bridges 20. Each bridge 20 connects a first-order bus 14 (a system bus, for instance) and a second-order bus 16. A host bridge 20A includes an outbound data route, an inbound data route and a control mechanism. The outbound data route includes a queue buffer receiving transactions from the first-order bus 14 and storing the transactions in order and many parallel buffers storing reading response data and address information. Reading requests and writing requests are successively stored and reading response are stored in the many parallel buffers. The both of the inbound route and the outbound route in the host bridge 20A are considered in the activities in the both directions and are controlled by permitting or inhibiting a bypass transaction.

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